

**Work Order ID 69690**

Monday, May 16, 2011 3:07:18 PM

Page 1

Item ID: D205-523-013

Accept

Revision ID:

Item Name: Heli Rappel, 500lb

Start Date: 5/16/2011 Start Qty: 2.00

Required Date: 5/18/2011 Req'd Qty: 2.00

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

DSI9301

Rev A

100

0.00



DC

Document Control

DOCUMENT CONTROL

Memo

0.00

Photocopy blue file &amp; type labels as per PPP D205-523-013, CHG 002

Substg

7/15/2011 11-5-25

110

0.00



Packaging

Packaging

Pick Kit

Memo

0.00

11/5/2011 22

120

0.00



QC

Quality Control

QC4- 100% Inspect kits for completeness

Memo

0.00

Substg

7/2

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 69690**

Monday, May 16, 2011 3:07:18 PM



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Item ID: D205-523-013

Accept



Setup Start



Revision ID:

Item Name: Heli Rappel, 500lb

Stop



Start Date: 5/16/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 5/18/2011 Req'd Qty: 2.00

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Package as per PPP D205-523-013 Stock <input type="checkbox"/> Location: <u>41</u>	<input type="checkbox"/> Identify and							
140 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

11/5/26

(2)

11/5/30

me

11-05-26

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Monday, May 16, 2011 3:07:27 PM

Page 1

Work Order ID: 69690

Parent Item: D205-523-013

Parent Item Name: Heli Rappel, 500lb

Start Date: 5/16/2011

Required Date: 5/18/2011

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP B□02.04.04□Updated Drawing and Added Inspection Level 21□SM□

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D205-523-043

Manufactured

No

110

Each

0.0000

1

2



369691

*[Handwritten signature]*

Slide Bar Assembly

D2224

Manufactured

No

110

Each

23.0000

1

2



*[Handwritten signature]*

Rappel Anchor

## Location

## Loc Qty

## Loc Code

ST489

23

40891

1

50878

22

D2229

Manufactured

No

110

Each

51.0000

2

4



*[Handwritten signature]*

Doubler

## Location

## Loc Qty

## Loc Code

ST009

51

33989

1

50875

14

55316

36

AN5-14A

Purchased

No

110

Each

100.0000

4

8



115126

*[Handwritten signature]*

Bolt

## Location

## Loc Qty

## Loc Code

ST338

100

115374

86

115429

14

*[Handwritten signature]*

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries

# Picklist Print

Monday, May 16, 2011 3:07:28 PM

Work Order ID: 69690

Parent Item: D205-523-013

Parent Item Name: Heli Rappel, 500lb

Start Date: 5/16/2011

Required Date: 5/18/2011

Start Qty: 2.00

Required Qty: 2.00

MS21042L5

Purchased

No

110

Each

1,275.000

4



Nut



*Handwritten signature*

Location

Loc Qty

Loc Code

ST300

1275

116105

315

116548

260

117441

500

117591

100

117611

100

*Handwritten notes and lines*

AN960JD516

NAS1149D0563J

Purchased

No

110

Each

0.0000

8

16



Washer



*Handwritten notes: M117291 11/5/2012*

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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**NOTE:** Date & initial all entries



**DART**

DESIGN <i>CP</i>	DRAWN BY <i>CP</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>HA</i>	APPROVED <i>HA</i>	DRAWING NO. DSI 9301	REV. A SHEET 1 OF 1
DATE 05.05.11		TITLE RAPPEL ANCHOR INSTALLATION	SCALE NTS
A	05.05.11	NEW ISSUE	

## **DART SERVICE INSTRUCTION**

### **TO AMEND INSTALLATION INSTRUCTIONS D205-523 REV. F**

REF. CANADIAN STC: SH96-90 ISSUE 3

REF. FAA STC: SR00511NY, SR00512NY, SR00513NY

It has come to DART's attention that in general, AN5-13A bolts are a more suitable length for installation of the D2224 Rappel Anchor (ref) in place of the AN5-14A bolts referred to in D205-523 Rev.F.

It is acceptable to install the D2224 Rappel Anchor (ref) using longer or shorter AN5 bolts as needed to suit the thickness of the rotorcraft's ceiling panel. It is acceptable to use a light AN960JD516L washer under the head of the bolt instead of an AN960JD516 washer per D205-523 Rev. F. However, to preserve the structural integrity of the system, the washer under the MS21042L5 nut must remain an AN960JD516 washer.

For all cases, ensure the bolts properly secure the D2224 Rappel Anchor (ref) to the rotorcraft's ceiling and each bolt has at least 2 threads in safety.

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 69690

*211-05-16*

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**

BY: *D. Shepherd*  
D. SHEPHERD (DE # 02)

DATE: 05.05.11  
CERT. NO.: SH96-90  
ISSUE NO.: 3

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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
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**NOTE:** Date & initial all entries

## 25.4 WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D205-523-013	3.5 lb 1.59 kg	±34.5 in ±0.876 m	±120.75 in-lb ±1.39 m-kg	116.8 in 2.97 m	408.8 in-lb 4.72 m-kg

## 25.5 PARTS LIST

-013	-023	-043	Part No.	Description
X			D205-523-013	HELI-RAPPEL™ INSTALLATION
	X		D205-523-023	300 HOUR INSPECTION KIT
1		X	D205-523-043	SLIDE BAR ASSEMBLY
		1	D3011-1	RAPPEL SLIDE BAR
		2	33116	STUD FITTING
	2	2	MS21042L6	NUT (OR MS21042-6)
	2	2	AN960JD616	WASHER
	2	2	D3012-1	DECAL
	2	2	D3012-3	DECAL
	2	2	D3012-5	DECAL
1			D2224	RAPPEL ANCHOR
2			D2229	DOUBLER
4	4		AN5-14A	BOLT
8	8		AN960JD516	WASHER
4	4		MS21042L5	NUT (OR MS21042-5)